BLACKBIRD™

4K 3x1 HDMI® Switch

P/N 43963

User's Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately remove it from its power source and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessive vibration or extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near a heat source, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Do not place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Unplug this device from the power source when not in use.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.

- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

INTRODUCTION

This 4K 3x1 HDMI® Switch allows you to distribute any one of three HDMI source devices to a single HDMI display. It supports video resolutions up to 4K@60Hz, with the YCbCr 4:4:4 color space, and delivers up to 18Gbps video bandwidth. It is fully compliant with the HDMI 2.0 and HDCP™ 2.2 specifications, and supports Dolby Vision™ and HDR10. It is powered by the HDMI bus and requires no external power. It supports CEC and EDID® passthrough, and includes an IR remote control.

FEATURES

- Distributes any one of three HDMI® inputs to a single HDMI display
- Supports video resolutions up to 4K@60Hz with YCbCr 4:4:4 color space
- Fully compliant with the HDMI 2.0 and HDCP™ 2.2 specifications
- Delivers up to 18Gbps bandwidth
- Supports Dolby Vision™ and HDR10
- HDMI bus powered, no external power required
- Supports CEC and EDID® passthrough
- Includes IR remote control

CUSTOMER SERVICE

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PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice™ Customer Service for a replacement.

1x 4K 3x1 HDMI® Switch

1x IR Remote Control

1x User's Manual

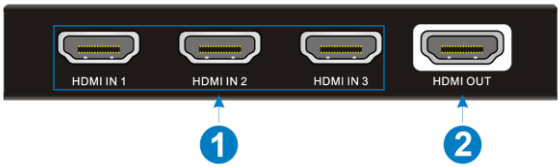
PRODUCT OVERVIEW

Front Panel

1. **IR:** IR "eye" for receiving signals from the included IR remote control.
2. **1-2-3:** One of the three LEDs illuminates blue to indicate the selected input with an active HDMI® signal. If there is no active HDMI signal on the selected input, the corresponding LED blinks blue.

3. **AUTO:** The LED illuminates blue when in Auto Switching Mode and is off when in Manual Switching Mode.
4. **SOURCE AUTO/3s:** When in Manual Switching Mode (**AUTO** LED off), momentarily press the button to cycle through the available active inputs. Press and hold the button for 3 seconds to toggle between Auto Switching Mode and Manual Switching Mode.

Rear Panel

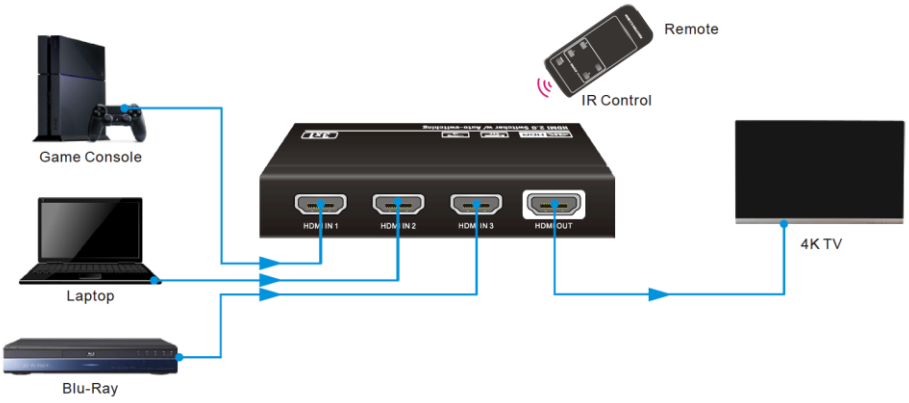


1. **HDMI IN 1~3:** Three HDMI® ports for connecting HDMI video source devices.
2. **HDMI OUT:** HDMI port for connecting an HDMI display.

Remote Control

- **AUTO:** Press the button to toggle between Auto Switching Mode and Manual Switching Mode.
- **INPUTS:** Press one of the numbered buttons to select the corresponding input when in Manual Switching Mode. The blank button has no effect.

SAMPLE CONNECTION DIAGRAM



SWITCHING MODES

This switch supports both Auto and Manual Switching Modes. You can toggle between the two modes using one of the following methods:

- Press and hold the **SOURCE AUTO/3s** button for 3 seconds.
- Press the **AUTO** button on the included IR remote control.

The **AUTO** LED illuminates blue when in Auto Switching Mode and is off when in Manual Switching Mode. When in Auto Switching Mode, the switch uses the following rules to determine which input to select:

- When a new input signal is detected, the switch automatically selects that input.
- The switch remembers its switching state when power is lost. When power is restored, the switch will attempt to select the last input used. If that input is not available, the switch automatically selects the lowest numbered active input.

- When the selected source is removed, the switch automatically selects the lowest numbered active input.

SPECIFICATIONS

P/N	43963
Video Inputs	3x HDMI®
Video Outputs	1x HDMI
Maximum Video Resolution	4K@60Hz with YCbCr 4:4:4 color space
Video Bandwidth	up to 18Gbps
HDMI Version	2.0
HDCP™ Version	2.2
Supported HDMI Audio Formats	7.1CH LPCM, Dolby Digital Plus™, Dolby TrueHD™, Dolby Atmos®, DTS-HD Master Audio™, DTS:X® passthrough
Supported HDMI Cable Lengths	1080p@60Hz: ≤ 65 feet (20 meters) 4K@60Hz 4:2:0: ≤ 32 feet (10 meters) 4K@60Hz 4:4:4: ≤ 13 feet (4 meters)
Input Power	HDMI bus, no external power
Maximum Power Consumption	0.1W
Operating Temperature	+23 ~ +131°F (-5 ~ +55°C)
Storage Temperature	-13 ~ +158°F (-25 ~ +70°C)
Operating Humidity	10 ~ 90% RH, noncondensing
Dimensions (WxHxD)	4.1" x 0.7" x 2.2" (105 x 18 x 55 mm)
Weight	5.3 oz. (150 g)

TECHNICAL SUPPORT

Monoprice™ is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website **www.monoprice.com** or through email by sending a message to **tech@monoprice.com**. Check the website for support times and links.

To download the latest drivers, firmware, manuals, etc., go to **www.monoprice.com** and type the **P/N** into the search bar. If available, support files are linked at the bottom of the product page.

REGULATORY COMPLIANCE

Notice for FCC

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential

installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice for Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.0

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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